

JP 4343712

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Core sheath type conjugate fibre - comprises core of polyphenylene polysulphide and polyamide e.g. polycaproamide and sheath of polyphenylene polysulphide, for industrial fibre

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Patent Family:

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Patent Details:

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Abstract (Basic): JP 4343712 A

The fibre comprises a polymer blended 5-30 wt.% of polyphenylene sulphide (PPS) to polyamide in the core component, and PPS in the sheath component. The polyamide comprises mainly polycapramide or polyhexamethylene adipamide. The core component is occupied 85-25 wt.% in whole the conjugate fibre. All the surface of the conjugate fibre is formed from PPS.

Pref. the polyamide comprises more than 70 wt.% of polycapramide or polyhexamethylene adipamide, and has more than 2.8, pref. more than 3.0 of sulphuric acid relative viscosity. PPS is pref. substantially linear polymer having 10-600 of melt flow rate. The conjugate fibre has pref. more than 5.5 g/d, more pref. more than 6 g/d of strength.

USE/ADVANTAGE - Useful for industrial fibre, esp. bag filter scrim ground fabric, motor knot cord, motor binder tape and reinforcing fibre for rubber. Since PPS fully cover the outer surface of the fibre, excellent heat resistance and chemical resistance, which is characteristic of PPS, is displayed. Since the component comprises mainly polyamide, the core component is subject almost tension applied to the fibre, thus high strength, high elongation and excellent physical property is displayed, and whole the fibre is softer compared with PPS alone fibre.

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